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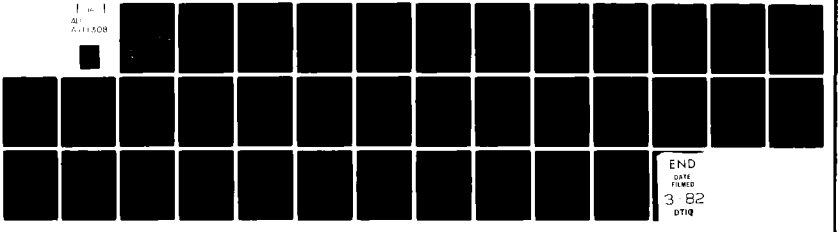

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DIVISION OF
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ANNAPOLIS, MARYLAND

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Annapolis, Maryland 21402

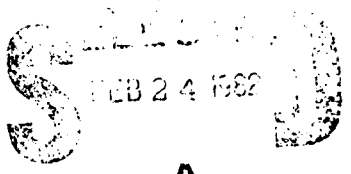
DIVISION OF ENGINEERING AND WEAPONS

Report EW-7-81

Computer Grade-Keeping Programs: User's Guide

Marcia A. Thornton*

December 1981



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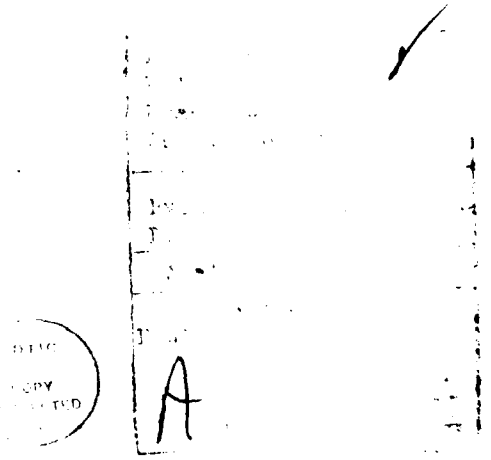
ABSTRACT

A set of programs is available on the Naval Academy Timesharing System to assist faculty members in the mechanics of grade keeping and recording. This report describes the basic function of each program and provides step-by-step instructions so the novice user can fully ~~utilize~~ use any one of the programs.



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INTRODUCTION

A series of computer programs has been written to assist the faculty member in many aspects of grade keeping. The programs fall into five broad categories:

1. Initial file preparation,
2. Grade entering and manipulation,
3. Grade calculation,
4. Academic performance reporting,
5. Grade distribution and curving.

Each program will be discussed with the procedure for using the program fully outlined.

Many of the programs are interdependent and may not run if other programs are not used. This interdependence is illustrated in Table 1. The entire set of programs is designed to be executed at certain phase points during the semester. Table 2 shows the suggested phase points and which programs can be run then.

Under the section labeled AT THE TERMINAL the following guidelines apply:

1. Unidentified letters identify terminal responses.
2. BOXED-IN CAPITAL LETTERS identify user inputs at CRTs or typewriter terminals.
3. (Explanatory remarks) are enclosed in parentheses.
4. All section numbers, category names, codes, and percentages are examples only. The user must enter the appropriate responses for his sections.
5. Actual computer output is used as much as possible to aid the user. This means that some information can be extraneous to a particular problem.
6. All printouts are sent to the REM 1 remote printer on the first deck of Rickover. Programs can be easily modified to send output files to other printers.

Table 1

Interdependence of Programs

FIRST RUN ↓ / TO RUN →	RUN-GR	SETUP	GRADEIN	GRADEL	STUDAVG	STUDRANK	FINAL	ACDEF1	MIDMAIL	HISTO	DISTR
RUN-GR	N/A	YES*			YES			YES			
SETUP		N/A	YES	YES	YES	YES	YES	YES	YES		
GRADEIN			N/A	YES	YES	YES	YES	YES	YES		
GRADEL **				N/A							
STUDAVG					N/A			YES			
STUDRANK						N/A					
FINAL							N/A				
ACDEF1								N/A			
MIDMAIL									N/A		
HISTO										N/A	YES
DISTR											N/A

* RUN-GR needs to be run before SETUP only if user plans to utilize STUDAVG or ACDEF 1.

** GRADEL is used only if desired.

Table 2

Suggested Semester Timetable

	RUN-GR	SETUP	GRADEIN	GRADEL	STUDAVG	STUDRANK	FINAL	ACDEF1	MIDMAIL	HISTO	DISTR
As desired			X	X	X	X		X	X	X	X
Week 2-3	X	X									
Week 4			X		X	X			X		
Week 8			X		X	X		X	X		
Week 12			X		X	X		X	X		
Week 16			X		X	X	X		X		

The timeline suggested above is only a guideline. Any of the programs can be run at any time the faculty members feels the requirements.

FILE PREPARATION

Two files must be created for each section. The first file contains the grades for each student for each of six grade categories; this file is named the same as the section number. The second file contains the grade for each student for each reporting period (4, 8, 12 week and current); this file is named the section number plus the letters "RG" (to denote this is a running grade file).

AT THE TERMINAL

```
NEW 1313  (Use the section number for your class)
Ready

SAV
Ready

OLD REGISTER***
Ready

RUN

REGISTER  (compiled)  15 Jun 81  11:36

FOR AID AFTER ANY QUESTION TYPE HELP

FALL OR SPRING?
? FALL

GIVE OUTPUT FILE OR PUSH RETURN FOR TELETYPE OUTPUT.
? 1313  (Use the section number for your class)
DO YOU WANT PRINTER FORMAT?
? YES

OPTION?
? 7
GIVE COURSE NUMBER, LIST OF SECTIONS SEPARATED BY COMMAS
? EX999,1313  (Use the course and section number for your class)
ITEM#S SEPARATED BY COMMAS
? 1,2,3,4


OPTION?
? 0
Ready
```

Repeat all of these steps for each section. Do not do more than one section at a time.

Usually the section file created above must be editted to agree with the section list in your paper gradebook. This is accomplished using the EDIT commands and is particularly important if there are addition/deletions to the roll or more than one class in a section.

AT THE TERMINAL

OLD 1313
Ready

EDI SEQ (Puts line numbers in front of each line)
Ready

EDI LIS (Lists the file in reverse order)

```
360
350
340 842500    ZULU TRIBE          32    ESE
330 842400    YANKEE REBEL        35    EOE
320 842300    XRAY VISION         01    ENA
 :
100 840100    ALPHA ROBERT B      35    EAS
Ready
```

EDI DEL 350-360 (Delete blank lines at end of file)
Ready (Use EDI MOV to move names if necessary)

EDI DES (Removes line numbers from front of each line)
Ready

REP (Replaces stored file with revised file)
Ready

Repeat all of these steps for each section.

The gradebook will keep track of six categories of grades (e.g. homework, exams, final) each weighted according to a criteria file which is built by SETUP. Be prepared with titles, two letter codes and percentage weights for each category. If you don't need all six categories, dummy category names weighted at 0% may be used to complete the criteria file. One word of caution: be sure that category six has a two letter code different from all the others since that code is used as a flag to indicate the last line of grades for a given student (a good idea is to make category six the final exam grade).

AT THE TERMINAL

(For each section, do the following steps.)

NEW 1313RG (Use section number + "RG")
Ready

SAV
Ready

OLD L.EN***:RUN-GR
Ready

RUN

RUN-GR 15 Jun 81 11:41

WHAT SECTION DO YOU WANT TO SET UP WITH A RUNNING GRADE FILE?

? 1313

Ready

(For each course, do the following steps.)

NEW CRITERIA (Any name can be used)
Ready

SAV
Ready

OLD L.EN***:SETUP
Ready

RUN

SETUP 15 Jun 81 11:42

HAS CRITERIA FILE BEEN FILLED WITH YOUR DATA?
? NO
INPUT NAME OF CRITERIA FILE? CRITERIA
ENTER COURSE NUMBER (EG. EE 311)
? EX999
ENTER THE TITLE OF GRADE CATEGORY # 1
? HOUR EXAMS
ENTER THE TWO LETTER CODE FOR HOUR EXAMS
? EX
ENTER THE PERCENT WEIGHT AS A WHOLE
NUMBER (0-100) FOR HOUR EXAMS
? 40

```
ENTER THE TITLE OF GRADE CATEGORY # 2
? QUIZZES
ENTER THE TWO LETTER CODE FOR QUIZZES
? QU
ENTER THE PERCENT WEIGHT AS A WHOLE
NUMBER (0-100) FOR QUIZZES
? 10
  :
  :
ENTER THE TITLE OF GRADE CATEGORY # 6
? FINAL EXAM
ENTER THE TWO LETTER CODE FOR FINAL EXAM
? FI
ENTER THE PERCENT WEIGHT AS A WHOLE
NUMBER (0-100) FOR FINAL EXAM
? 35
INPUT SECTION FILE TO BE SET UP
? 1313
```

Your empty gradebook looks like the one below. It is now ready to receive grades during the semester.

```
     COURSE:  EX999                SECTION 1313
      LEGEND:
         EX-HOUR EXAMS COUNTS 40%
         QU-QUIZZES COUNTS 10%
         LA-LABORATORY REPORTS COUNTS 5%
         CP-CASE PROBLEM COUNTS 5%
         IP-INSTRUCTOR PEROGATIVE COUNTS 5%
         FI-FINAL EXAM COUNTS 35%
840100   ALPHA ROBERT B      33    EAS
     EX-
     QU-
     LA-
     CP-
     IP-
     FI-
840200   BRAVO MICHAEL D     30    EEE
     EX-
     QU-
     LA-
     CP-
     IP-
     FI-
840300   CHARLIE MIKE C      27    EGE
     EX-
     QU-
     LA-
     CP-
     IP-
     FI-
```

The running grade file looks like the one below. At each reporting period, the information will be updated and stored in this file.

NUMBER	MIDSHIPMAN	4 WK AVERAGE	8 WK AVERAGE	12 WK AVERAGE	CURRENT AVERAGE
1	ALPHA ROBERT B	00 0000	00.0000	00.0000	00.0000
2	BRAVO MICHAEL D	00.0000	00 0000	00.0000	00 0000
3	CHARLIE MIKE C	00 0000	00.0000	00.0000	00.0000
4	DELTA ALFRED C	00 0000	00 0000	00 0000	00.0000
5	ECHO OFF WALL	00.0000	00.0000	00.0000	00.0000
6	FOXTROT WALTZ	00.0000	00.0000	00.0000	00 0000
7	GOLF T OFF	00 0000	00 0000	00.0000	00 0000
8	HOTEL REER	00.0000	00.0000	00 0000	00 0000
9	INDIA JAPAN	00 0000	00.0000	00 0000	00 0000
10	JULIET GIRL	00 0000	00.0000	00 0000	00 0000
11	KILO COMPANY	00.0000	00 0000	00 0000	00.0000
12	LIMA BEANS	00.0000	00.0000	00.0000	00.0000
13	MIKE COMPANY	00.0000	00 0000	00.0000	00 0000
14	NOVEMBER IKE	00 0000	00 0000	00 0000	00 0000
15	OSCAR MAYER	00 0000	00.0000	00.0000	00.0000
16	PAPA MAMA	00 0000	00.0000	00.0000	00.0000
17	QUEBEC ONTARIO	00.0000	00.0000	00.0000	00 0000
18	ROMEO IN CLOV	00.0000	00 0000	00 0000	00 0000
19	SIERRA NEVADA	00 0000	00 0000	00.0000	00 0000
20	TANGO SAMBA	00.0000	00.0000	00.0000	00.0000
21	UNIFORM REGS	00.0000	00.0000	00.0000	00 0000
22	WHISKEY RUM	00.0000	00 0000	00.0000	00 0000
23	XRAY VISION	00.0000	00.0000	00.0000	00.0000
24	YANKEE REBEL	00.0000	00 0000	00 0000	00.0000
25	ZULU TRIBE	00.0000	00.0000	00.0000	00.0000

GRADE SUBMISSION

Grades may be entered at any time during the semester. Prior to using the program the ~~first~~ time, perform the following steps.

AT THE TERMINAL

```
OLD L.EN***:DATAIN
Ready

SAV
Ready
```

The above steps need only be done once. To enter grades, a PERFORM file is used.

AT THE TERMINAL

```
PER L.EN***:GRADEIN
/OLD L.EN***:MOD3/RUN/

WOULD YOU LIKE INSTRUCTIONS ON ENTERING GRADES?
? NO

INPUT THE NAME OF YOUR CRITERIA FILE
? CRITERIA
WHICH SECTION DO YOU WANT?

? 1313

WHAT IS THE GRADE CODE FOR THIS SET OF GRADES?
? LA
INPUT THE  25  LABORATORY REPORTS GRADES FOR 1313
(NO INDIVIDUAL ENTRY WILL BE MADE FOR ANY NEGATIVE GRADE )
? 90,90,70,80,70,70,80,90,90,80,90,90,80,80,60,70,70,80,80,70,···,70
ALPHA ROBERT B              90.00
BRAVO MICHAEL D             90.00
  :

ZULU TRIBE                  70.00
ARE THESE GRADES CORRECT? YES
THE AVERAGE LABORATORY REPORTS GRADE IS  78.4
DO YOU HAVE MORE GRADES TO INPUT FOR SECTION 1313?
? YES

WHAT IS THE GRADE CODE FOR THIS SET OF GRADES?
? QU
INPUT THE  25  QUIZZES GRADES FOR 1313
  :
```

```
DO YOU HAVE MORE GRADES TO INPUT FOR SECTION 1313?
? NO
DO YOU WANT TO INPUT GRADES FOR ANOTHER SECTION?
? NO

*PER DATAIN
*OLD L.EN***:DATAIN
*RUN

? CRITERIA
? 1313
? LA
?  90
?  90
   :

?  62
?  60


THE AVERAGE QUIZZES GRADE IS  72.96


? NO

*/NBR/
Ready


Ready
```

(Once your data has been input, do NOT interrupt execution until all grades have been entered. It can be very slow. Also do not enter a negative zero if there is no grade for a student; it will be entered as a positive zero in your gradebook.)

As an alternative to sitting at the terminal, there is a program available to run in background. This routine requires more available storage so be sure you have enough room in your file.

AT THE TERMINAL

```
Per L.EN***:GRADEIN B
  :
```

To check later on to be sure grades are in type:

```
OLD BACKGRD

 Ready
LIS
```

If the routine has finished the results will be printed. A word of caution: Do not access your gradebooks until GRADEINB is complete. You can cause an error.

GRADE CHANGES

Grades are changed by entering the gradebook and altering the line containing the incorrect grade. This can be accomplished by one of two methods using the text editing routines on NATS.

Method 1 - (If the grade to be changed is unique in its line)

AT THE TERMINAL

```
OLD 1313
Ready

EDI SEQ
Ready

EDI LOC /ROMEO/
1370 841800    ROMEO IN CLOV        16    HHS
Ready

EDI LIS 1370-1430

1370 841800    ROMEO IN CLOV        16    HHS
1380      EX-,    65.00,    97.00,  46.00
1390      QU-,    82.00,    70.00,  73.00
1400      LA-,  80.00
1410      CP-,  82.00
1420      IP-,  90.00
1430      FI-,  61.00
Ready

TEXT REP 65,75,1380
Ready

EDI DES
Ready

REP
Ready
```

Method 2 (If the grade is to be changed is not unique in its line)

AT THE TERMINAL

```
OLD 1313
Ready

EDI SEQ
Ready

EDI LOC /840700/
600 840700   GOLF T OFF          15   ESE
Ready

EDI LIS 600-660

600 840700   GOLF T OFF          15   ESE
610      EX-,   75.00,   81.00,  83.00
620      QU-,   70.00,   70.00,  84.00
630      LA-,   80.00
640      CP-,   76.00
650      IP-,   75.00
660      FI-,   76.00
Ready

EDI LIS 620

620      QU-,   70.00,   70.00,  84.00
Ready

620      QU-,   70.00,   75.00,  84.00
EDI DES
Ready

REP
Ready
```

GRADE DELETIONS

Many instructors like to give a lot of tests and then drop a certain number of the lowest scores. This program has two options:

1. Delete the "x" lowest grades from each student's portion of the gradebook.

2. Retain the "x" highest grades of each student's portion of the gradebook.

AT THE TERMINAL

```
OLD L.EN***:GRADEL
Ready

RUN

GRADEL     16 Jun 81  09:40

AVAILABLE OPTIONS ARE:
     1  COUNT ONLY THE 'X  HIGHEST GRADES
     2  DELETE THE 'Y  LOWEST GRADES

OPTION? 1
INPUT THE FILE NAME OF YOUR SECTION S GRADE BOOK
? 1313
INPUT TWO CHARACTER CODE FOR CATEGORY TO DELETE GRADES
? QU
INPUT NUMBER OF GRADES TO COUNT
? 2

Ready
```

INTERIM GRADE CALCULATION

Overall grades can be computed at any time using STUDAVG. Prior to using the program, perform the following steps:

AT THE TERMINAL

```
NEW INDAVE
Ready

SAV
Ready
```

The results of STUDAVG are written to file INDAVE which is automatically printed on REM 1 (remote printer 1) on the first deck of Rickover; the newly computed overall averages are inserted in the appropriate running grade file. To do the actual grade calculation, execute the PERFORM file, STUDAVG.

AT THE TERMINAL

```
PER L.EN***:STUDAVG
RUN
INPUT NAME OF YOUR CRITERIA FILE
? CRITERIA


IS THIS THE 4, 8, 12 OR 16 WEEK POINT IN THE SEMESTER?
(TYPE IN A ONE OR TWO DIGIT NUMBER ONLY )

? 8

LIST SECTIONS FOR WHICH YOU WISH GRADES.
(SEPERATE EACH SECTION WITH A COMMA)

? 1313

*PER L.EN***:REMOTE;INDAVE
*/OLD BACKPRT/UNS
*/NEW BACKPRT/SAV
*100 PRINT INDAVE
110 USING REM 1
120 FORMAT NSLEW
130 END
REP
*BACK
***JOB ACCEPTED
*
 *NBR
Ready
```

If an error message is printed, the contents of INDAVE can be obtained by typing REM 1 INDAVE

(To ensure that all the data is printed, submit only two sections at a time if there are 25 students or more per section. If there are fewer than 25 students per section, three sections can be submitted at once.)

The output from INDAVE looks like:

COURSE: EX999 SECTION 1313 8 WEEK GRADES

840100 ALPHA ROBERT B 33 AEROSPACE ENGINEERING EXT: 3983

HOUR EXAMS AVG = 75.5 CO. OFFICER: LT KELLY
QUIZZES AVG = 74 3333
LABORATORY REPORTS AVG= 90 STANDING: 16 OUT OF 25
OVERALL AVERAGE = 76.6061
SECTION AVERAGE = 77 4303

840200 BRAVO MICHAEL D 30 ELECTRICAL ENGINEERING EXT: 2087

HOUR EXAMS AVG = 81 CO. OFFICER: LT MURASHIGE
QUIZZES AVG = 75.3333
LABORATORY REPORTS AVG= 90 STANDING: 4 OUT OF 25
OVERALL AVERAGE = 80.7879
SECTION AVERAGE = 77 4303

840300 CHARLIE MIKE C 27 GENERAL ENGINEERING EXT: 3992

HOUR EXAMS AVG = 74 5 CO OFFICER: LCDR HEWETT
QUIZZES AVG = 68.6667
LABORATORY REPORTS AVG= 70 STANDING: 21 OUT OF 25
OVERALL AVERAGE = 73 0303
SECTION AVERAGE = 77 4303

STANDING	MIDSHIPMAN	4 WK AVERAGE	8 WK AVERAGE	12 WK AVERAGE	CURRENT AVERAGE
1	ECHO OFF WALL	88 2	87.697	0	87 697
2	LIMA BEANS	84 5	84 8485	0	84 8485
3	KILO COMPANY	84 3	83 9394	0	83 9394
4	BRAVO MICHAEL D	80.1	80 7879	0	80 7879
5	FOXTROT WALTZ	80 8	80.6667	0	80 6667
6	MIKE COMPANY	79 9	80 1212	0	80 1212
7	ROMEO IN CLOV	80	79 8182	0	79 8182
8	DELTA ALFRED C	78 9	78 7879	0	78 7879
9	OSCAR MAYER	80 1	78.4848	0	78 4848
10	JULIET GIRL	78 9	78 2424	0	78 2424
11	UNIFORM REGS	77 5	77 9394	0	77 9394
12	ZULU TRIBE	78	77 8788	0	77 8788
13	GOLF T OFF	76 4	77 5758	0	77 5758
14	PAPA MAMA	78 4	77 4545	0	77 4545
15	TANGO SAMBA	77	76 7879	0	76 7879
16	ALPHA ROBERT B	75 2	76.6061	0	76 6061
17	SIERRA NEVADA	76 1	76.4242	0	76 4242
18	XRAY VISION	75 8	75 5152	0	75 5152
19	WHISKEY RUM	74 3	74.1818	0	74.1818
20	NOVEMBER IKE	72 6	73 8182	0	73 8182
21	CHARLIE MIKE C	73 1	73 0303	0	73 0303
22	HOTEL BEER	71 1	72 5455	0	72 5455
23	YANKEE REBEL	72 2	72 3636	0	72 3636
24	INDIA JAPAN	71 5	72 1212	0	72 1212
25	QUEBEC ONTARIO	68.3	68.1212	0	68 1212

BASED ON 25 STUDENTS - THE SEPARATE CATEGORY AVERAGES ARE:

HOUR EXAMS AVG =	78.44	QUIZZES AVG =	72 9067
LABORATORY REPORTSAVG =	78.4	CASE PROBLEMAVG =	0
INSTRUCTOR PEROGATIVEAVG =	0	FINAL EXAM AVG =	0

MIDSHIPMEN RANKING

It is sometimes beneficial to rank all of the students that a faculty member teaches into a single group. This is one option provided by STUDRANK. For convenience, the listings are printed on the remote printer.

AT THE TERMINAL

```
PER L.EN***:STUDRANK
BRI
*/OLD INDAVE/UNS
*/NEW INDAVE/SAV
*OLD L EN***:GRADEAVE
*RUN
INPUT THE NAME OF YOUR CRITERIA FILE
? CRITERIA
LIST SECTIONS FOR WHICH YOU WISH GRADES
(SEPERATE EACH SECTION WITH A COMMA)

? 1313
  DO YOU WISH A FILE ORDER LISTING OF THE SECTIONS?
? YES
  DO YOU WISH A RANK LISTING BY SECTION?
? YES
  DO YOU WISH A COMBINED RANK LISTING
? YES

*PER L.EN***:REMOTE;INDAVE
*/OLD BACKPRT/UNS
*/NEW BACKPRT/SAV
*100 PRINT INDAVE
110 USING REM 1
120 FORMAT NSLEW
125 SCRATCH INDAVE
130 END
REP
*BACK
***JOB ACCEPTED
*NBR
Ready


Ready
```

The output from STUDRANK looks like:

```
FILE ORDER LISTING

   COURSE:  EX999                SECTION 1313

 1   840100   ALPHA ROBERT B      33   EAS 76 6667
 2   840200   BRAVO MICHAEL D     30   EEE 79 4167
 3   840300   CHARLIE MIKE C      27   EGE 77 2667
 4   840400   DELTA ALFRED C      24   EME 80 1
 5   840500   ECHO OFF WALL       21   ENA 83 0333
 6   840600   FOXTROT WALTZ       18   EOE 81 7833
 7   840700   GOLF T OFF          15   ESE 77 4833
 8   840800   HOTEL BEER          12   ESP 72 6833
 9   840900   INDIA JAPAN         09   SAS 78 55
10   841000   JULIET GIRL         06   SCH 81
11   841100   KILO COMPANY        03   SMA 81 1333
12   841200   LIMA BEANS          34   SOC 83 9
13   841300   MIKE COMPANY        31   SPH 82 2333
14   841400   NOVEMBER IKE        28   SPS 80 4167
15   841500   OSCAR MAYER         25   FEC 79 75
16   841600   PAPA MAMA           22   FPS 76 5667
17   841700   QUEBEC ONTARIO      19   HEG 71 2333
18   841800   ROMEO IN CLOV       16   HHS 69 1833
19   841900   SIERRA NEVADA       13   EAS 75 5167
20   842000   TANGO SAMBA         10   EEE 75 8
21   842100   UNIFORM REGS        07   EGE 76 75
22   842200   WHISKEY RUM         04   EME 75 2833
23   842300   XRAY VISION         01   ENA 72 3
24   842400   YANKEE REBEL        35   EOE 65 9
25   842500   ZULU TRIBE          32   ESE 64 5333

BASED ON 25  STUDENTS THE OVERALL AVERAGES ARE:

    TOTAL AVE =  76 7393      HOUR EXAMS =  77 0667
    QUIZZES =  72 9067        LABORATORY REPORTS =  78 4
    CASE PROBLEM =  79 44     INSTRUCTOR PEROGATIVE =  78 4
    FINAL EXAM =  76 6
```

RANK LISTING

COURSE: EX999 SECTION 1313

1	841200	LIMA BEANS	34	SOC	83 9
2	840500	ECHO OFF WALL	21	ENA	83 0333
3	841300	MIKE COMPANY	31	SPH	82 2333
4	840600	FOXTROT WALTZ	18	EOE	81 7833
5	841100	KILO COMPANY	03	SMA	81 1333
6	841000	JULIET GIRL	06	SCH	81
7	841400	NOVEMBER IKE	28	SPS	80 4167
8	840400	DELTA ALFRED C	24	EME	80 1
9	841500	OSCAR MAYER	25	FEC	79 75
10	840200	BRAVO MICHAEL D	30	EEE	79 4167
11	840900	INDIA JAPAN	09	SAS	78 55
12	840700	GOLF T OFF	15	ESE	77 4833
13	840300	CHARLIE MIKE C	27	EGE	77 2667
14	842100	UNIFORM REGS	07	EGE	76 75
15	840100	ALPHA ROBERT B	33	EAS	76 6667
16	841600	PAPA MAMA	22	FPS	76 5667
17	842000	TANGO SAMBA	10	EEE	75 8
18	841900	SIERRA NEVADA	13	EAS	75 5167
19	842200	WHISKEY RUM	04	EME	75 2833
20	840800	HOTEL BEER	12	ESP	72 6833
21	842300	XRAY VISION	01	ENA	72 3
22	841700	QUEBEC ONTARIO	19	HEG	71 2333
23	841800	ROMEO IN CLOV	16	HHS	69 1833
24	842400	YANKEE REBEL	35	EOE	65 9
25	842500	ZULU TRIBE	32	ESE	64 5333

BASED ON 25 STUDENTS THE OVERALL AVERAGES ARE:

TOTAL AVE = 76 7393	HOUR EXAMS = 77 0667
QUIZZES = 72 9067	LABORATORY REPORTS = 78 4
CASE PROBLEM = 79 44	INSTRUCTOR PEROGATIVE = 78 4
FINAL EXAM = 76 6	

FINAL GRADE CALCULATION

Due to the special grade reporting requirements at the end of the semester, a separate program is available for calculating final grades. Prior to using the program, the following steps must be performed.

AT THE TERMINAL

```
NEW FINRPT
Ready

SAV
Ready
```

All subsequent runs are performed by:

AT THE TERMINAL

```
PER L.EN***:FINAL
OLD L.EN***:FINREP
Ready

RUN

FINREP     16 Jun 81   12:27


INPUT THE FILE NAME OF YOUR SECTION S GRADE BOOK
? 1313
INPUT NAME OF YOUR CRITERIA FILE? CRITERIA

DEFAULT CUTOFF SCORES FOR EACH CATEGORY (16 WEEK AVERAGE, FINAL EXAM,
AND FINAL AVERAGE) ARE  A - 90, B - 80, C - 70, D - 60   IF YOU DON T
WANT THESE, YOU MAY ENTER YOUR OWN.

DO YOU WANT THE DEFAULT CUTOFF SCORES?   (YES OR NO)? YES

DO YOU HAVE MORE SECTIONS FOR WHICH TO COMPUTE FINAL GRADES?

? NO

Ready

REM 1 FINRPT
Ready


Ready
```

The output from FINAL is written to file FINRPT which is automatically printed on REM 1 (remote printer 1) on the first deck of Rickover. Any number of sections may be done at one time. The output from FINRPT looks like:

COURSE -- EX999 SECTION -- 1313

	(1) 16 WK	(2) FINEX	(3) FINAL	GRADE (1)	(2)	(3)	FINAL STANDING
ALPHA ROBERT B	77.0256	76.0000	76.6667	C	C	C	15
BRAVO MICHAEL D	80.1795	78.0000	79.4167	B	C	C	10
CHARLIE MIKE C	76.3333	79.0000	77.2667	C	C	C	13
DELTA ALFRED C	80.1538	80.0000	80.1000	B	B	B	8
ECHO OFF WALL	82.5128	84.0000	83.0333	B	B	B	2
FOXTROT WALTZ	79.5128	86.0000	81.7833	C	B	B	4
GOLF T OFF	78.2821	76.0000	77.4833	C	C	C	12
HOTEL BEER	74.1282	70.0000	72.6833	C	C	C	20
INDIA JAPAN	72.9231	89.0000	78.5500	C	B	C	11
JULIET GIRL	79.3846	84.0000	81.0000	C	B	B	6
KILO COMPANY	83.8974	76.0000	81.1333	B	C	B	5
LIMA BEANS	80.6154	90.0000	83.9000	B	A	B	1
MIKE COMPANY	79.6667	87.0000	82.2333	C	B	B	3
NOVEMBER IKE	77.4103	86.0000	80.4167	C	B	B	7
OSCAR MAYER	78.5385	82.0000	79.7500	C	B	C	9
PAPA MAMA	78.4872	73.0000	76.5667	C	C	C	16
QUEBEC ONTARIO	72.9744	68.0000	71.2333	C	D	C	22
ROMEO IN CLOV	73.5897	61.0000	69.1833	C	D	D	23
SIERRA NEVADA	79.0256	69.0000	75.5167	C	D	C	18
TANGO SAMBA	75.6923	76.0000	75.8000	C	C	C	17
UNIFORM REGS	74.4615	81.0000	76.7500	C	B	C	14
WHISKEY RUM	71.1282	83.0000	75.2833	C	B	C	19
XRAY VISION	68.1538	80.0000	72.3000	D	B	C	21
YANKEE REBEL	71.2308	56.0000	65.9000	C	F	D	24
ZULU TRIBE	75.0513	45.0000	64.5333	C	F	D	25

16 WEEK AVERAGE = 76.8144
FINAL EXAM AVERAGE = 76.6000
FINAL AVERAGE = 76.7393

	16 WK	FINEX	FINAL
NUMBER OF A S	0	1	0
NUMBER OF B'S	5	11	8
NUMBER OF C S	19	8	14
NUMBER OF D S	1	3	3
NUMBER OF F'S	0	2	0
TOTAL	25	25	25

ACADEMIC PERFORMANCE REPORTING

Most of the information used on the academic performance report (ACDEAN-1531/33) is already maintained in the gradebook. That information is merged with instructor input to produce a report almost identical to the academic performance report, yet which contains more data and is easier for the instructor to generate. Prior to program execution, an output file must be created.

AT THE TERMINAL

```
NEW ACDEF
Ready

SAV
Ready
```

Reports are generated using ACDEF 1. Two options are available for selecting midshipmen for reporting:

1. Midshipmen with overall averages below a certain minimum.

2. Selected midshipmen accessed by alpha code.

AT THE TERMINAL

```
OLD L.EN***:ACDEF1
Ready

RUN

ACDEF1    (compiled)  17 Jun 81  08:18

     ACDEF1 TENTATIVELY WILL SEARCH SELECTED FILES FOR
MIDSHIPMEN WITH COURSE AVERAGES LESS THAN A DEFINED
CUTOFF AVERAGE OR FOR SELECTED MIDSHIPMEN
WITH THE AID OF TERMINAL INPUTS ACDEF1 WILL DRAFT
ACADEMIC DEFICIENCY REPORTS

     YOU MUST HAVE A FILE NAMED  ACDEF
PREVIOUSLY SAVED IN YOUR CATALOG FOR THIS
PROGRAM TO RUN

     PLEASE FORWARD ANY COMMENTS  SUGGESTIONS OR QUESTIONS
TO LT R  W. ROLFES  X3186.

INPUT NAME OF YOUR CRITERIA FILE
? CRITERIA

INPUT COURSE TITLE  YOUR NAME  AND YOUR TELEPHONE EXTENSION
(SEPERATE EACH WITH A COMMA)
? SPECIAL ENGINEERING,CAPT THORNTON,3881
```

```
IS THIS THE 4, 8  12 OR 16 WEEK POINT IN THE SEMESTER?
(TYPE IN A ONE OR TWO DIGIT NUMBER ONLY )
? 16
LIST SECTIONS FOR WHICH YOU WISH ACADEMIC REPORTS
(SEPERATE EACH SECTION WITH A COMMA)

? 1313
OPTION 1: MIDSHIPMAN BELOW SELECTED AVERAGE
OPTION 2: SELECTED MIDSHIPMEN.
SELECT OPTION 1 OR 2
? 1
INPUT CUTOFF AVERAGE
? 70
ACADEMIC PERFORMANCE REPORT  MIDSHIPMAN ROMEO IN CLOV

INPUT NUMBER OF HOURS ABSENT AND NUMBER OF EI HOURS.
(SEPARATE EACH WITH A COMMA)

? 2,12

INPUT THE PURPOSE OF THIS REPORT.
(SELECT 1 2 3 OR 4)
      1 - REGULAR
      2 - ACADEMIC DEFICIENCY
      3 - SEMESTER FAILURE
      4 - OTHER
? 2
RATE THIS MIDSHIPMAN IN EACH OF THE FOLLOWING CATAGORIES:
(SEPARATE EACH SELECTION WITH A COMMA)

RELATIVE ACADEMIC PERFORMANCE:
     1 - TOP 5%
     2 - UPPER 20%
     3 - MIDDLE 50%
     4 - LOWER 20%
     5 - BOTTOM 5%
CLASS PARTICIPATION:
     1 - TOP 25%
     2 - MIDDLE 50%
     3 - BOTTOM 25%
ATTITUDE TOWARDS NAVAL SERVICE
     1 - POSITIVE
     2 - NEUTRAL
     3 - NEGATIVE
     4 - NOT OBSERVED
INSTRUCTORS ESTIMATE OF OFFICER POTENTIAL:
(BASED UPON MORE THAN ACADEMIC PERFORMANCE)
     1 - EXCELLENT
     2 - ABOVE AVERAGE
     3 - AVERAGE
     4 - BELOW AVERAGE
     5 - UNSATISFACTORY
? 5 1 1 2
```

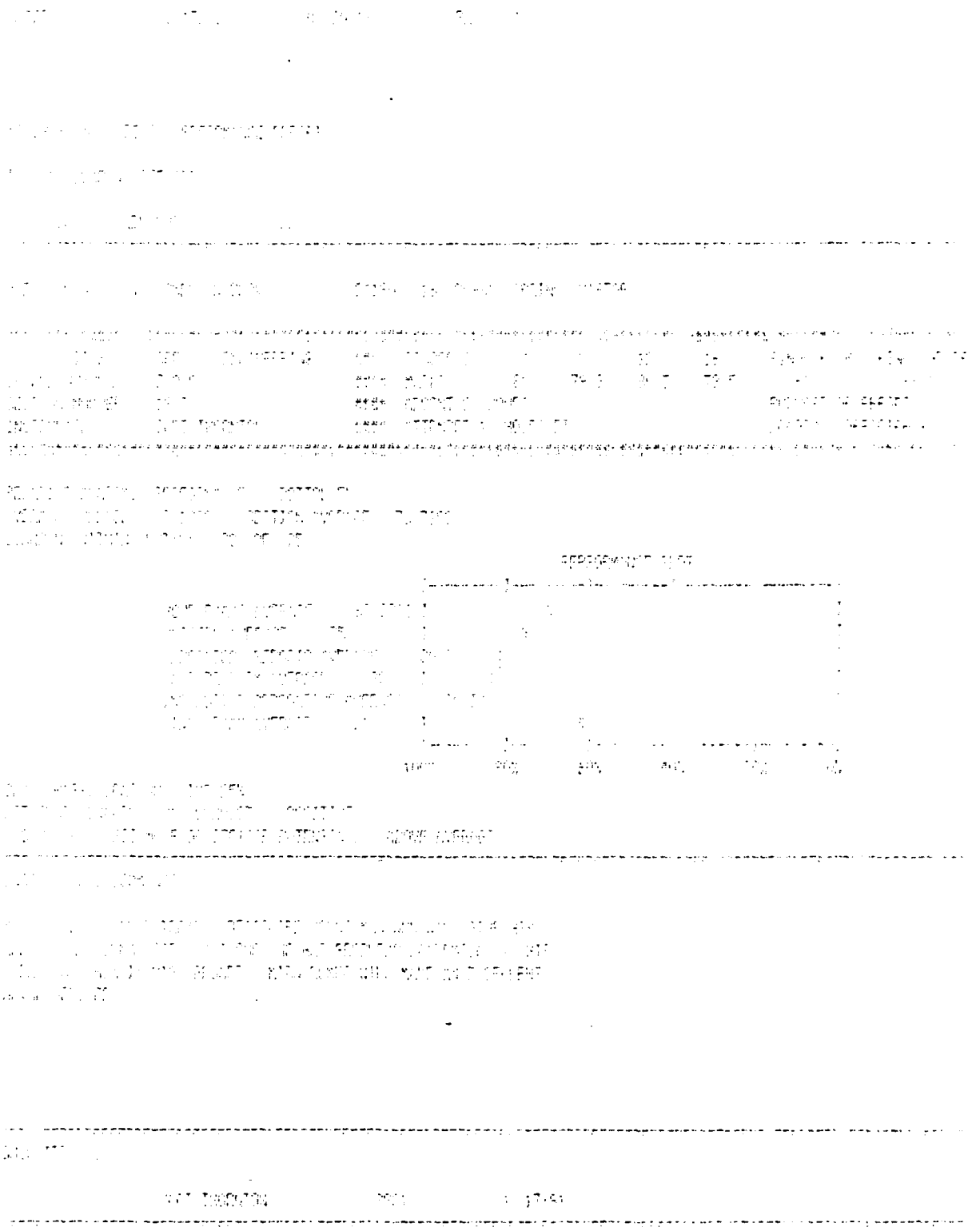
```
INPUT NARRATIVE ON ROMEO IN CLOV
     (MAXIMUM OF 9 LINES)
? MIDN ROMEO IS AN EXTREMELY DEDICATED YOUNG MAN WHO WILL GIVE HIS
? ALL FOR ANY COMMANDER   ALTHOUGH HE HAS PROBLEMS ACADEMICALLY  HIS
? PEERS HOLD HIM IN HIGH REGARD   MIDN ROMEO WILL MAKE AN EXCELLENT
? NAVAL OFFICER
?
ACADEMIC PERFORMANCE REPORT  MIDSHIPMAN YANKEE REBEL

    .
    .
    .

Ready


REM 1 ACDEF
Ready
```

The output of file ACDEF looks like:



MIDSHIPMAN GRADE DISTRIBUTION

Most midshipmen would like to know their progress and final grades as soon as these grades are available. Simple and quick distribution can be accomplished via the computer. The actual grade mailing is done by a PERFORM file. Each student must create a ' MAIL' file to receive grades via the computer. This is accomplished by:

AT THE TERMINAL

```
MAIL CREATE (The instructor should do this also)
Ready
```

The instructor can then send grades by executing the following steps:

AT THE TERMINAL

```
PER L.EN***:MIDMAIL
bRI
*/NEW MIDMAIL/SAV
*/OLD L.EN***:MAILRT/RUN
INPUT NAME OF YOUR CRITERIA FILE
? CRITERIA


LIST SECTIONS FOR WHICH YOU WISH TO SEND GRADES.
(SEPERATE EACH SECTION WITH A COMMA)

? 1313
INPUT YOUR NAME FOR USE WITH THE  MAIL  ROUTINE
? CAPT THORNTON

*/PER MIDMAIL
*/NEW STUDGRD/SAV/
*/OLD INDAVE/EDI SEQ 1 1/
*/EDI EXT  1 - 12 /EDI DES/
*/REP STUDGRD/
*/MAIL STUDGRD TO *E04070/
PRIVACY WARNING--YOUR USER NUMBER WILL BE SENT ALSO
WHAT IS YOUR NAME
? CAPT THORNTON

*/OLD INDAVE/EDI SEQ 1 1/
*/EDI EXT  13 - 24 /EDI DES/
*/REP STUDGRD/
*/MAIL STUDGRD TO *E04070/
PRIVACY WARNING--YOUR USER NUMBER WILL BE SENT ALSO
WHAT IS YOUR NAME
? CAPT THORNTON
  :
*/UNS STUDGRD/
*/UNS MIDMAIL
*NBR
Ready


Ready
```

The next time the midshipman signs on to the computer, a message appears telling him that he has mail. The file sent to the student looks like this:

```
CAPT THORNTON     HDE04028     06/17/81     09:20:31
840100    ALPHA ROBERT B      33    EAS     EX999

          HOUR EXAMS AVG  =  75 3333      STANDING:  2  OUT OF  2
          QUIZZES AVG     =  74 3333
          LABORATORY REPORTS AVG=  90     SECTION AVERAGE =  78 0417
          CASE PROBLEM AVG=  85
          INSTRUCTOR PEROGATIVE AVG=  75
          FINAL EXAM AVG  =  76
          OVERALL AVERAGE =  76.6667
```

GRADE CURVING

A pair of programs, DISTR and HISTO, provide a simple method for determining the distribution of grades on a given exercise and for curving these grades if desired. To use these programs, the user must first create a file containing the grades to be plotted on a histogram and then curved. The data is then inserted into both programs using the EDIT MERGE command. All of these steps are accomplished by a PERFORM file.

AT THE TERMINAL

(Prior to using these routines for the first time, the files must be saved in the user's catalog).

```
NEW GRADES
Ready

SAV
Ready

OLD L.EN***:HISTO
Ready

SAV
Ready

OLD L.EN***:DISTR
Ready

SAV
Ready
```

(Subsequent runs can be made via the PERFORM file, GRADDAT).

```
PER L.EN***:GRADDAT
BRI
*OLD L EN***:DIT
*RUN
INPUT DATA SEPARATED BY COMMAS.  TO DENOTE MULTIPLE
OCCURRENCES OF THE SAME DATA USE THE NUMBER OF TIMES
THE DATA APPEARS  AN ASTERISK  AND THE DATA:
     I.E. 3*78 IS THE SAME AS 78,78,78
? 5*73,4*81,3*79,80,80,91,80,79,5*82,90
?                (a blank line terminates the data input)

*OLD GRADES
*EDI DES
*REP GRADES
*OLD HISTO
*EDI DEL 200-1000
*REP HISTO
```

```
*EDI MER HISTO;GRADES
***.RESULT.
*REP HISTO
*OLD DISTR
*EDI DEL 200-1000
*REP DISTR
*EDI MER DISTR;GRADES
***.RESULT.
*REP DISTR
*NBR
Ready


Ready
```

HISTO determines the distribution of the grades and produces a histogram plot. It is advisable to run HISTO on a typewriter terminal since the overwrite on the CRTs makes them inappropriate for this program.

AT THE TERMINAL

```
OLD HISTO
Ready

100 DATA 1
110 DATA 100
REP
Ready

RUN

HISTO      17 Jun 81  08:59

================================================================================
THE NUMBER OF GRADES = 23

THE ARITHMETIC MEAN = 79.8261

THE STANDARD DEVIATION = 4.73529

CUTS BASED ON THE STANDARD DEVIATION
--------------------------------------------------------------------------------

 72.7    ---------------------
 73      5     5       !*****



 77.5    ---------------------

 79      4     9       !****
 79.8    +++++++++++++++++++++++++++++++++++++++++++++
 80      3     12      !***
 81      4     16      !****
 82      5     21      !*****
 82.2    ---------------------



 86.9    ---------------------


 90      1     22      !*
 91      1     23      !*

================================================================================

Ready
```

DISTR converts raw scores into standard percentages based on the cur-off valves input for A,B,C, and D. These valves can be changed to produce any desired grade distribution. Again, it is suggested that DISTR also be run on a typewriter terminal.

AT THE TERMINAL

```
OLD DISTR
Ready

100 DATA 72,77,82,86
110 DATA 100
REP
Ready

RUN

DISTR      17 Jun 81  09:00
```

(Highest grade in F, D, C, B categories)
(100=total number of points possible. Use the appropriate number if different)

F	D	C	B	A
0 - 72	73 - 77	78 - 82	83 - 86	87 - 100
0	5	16	0	2
0 %	21 74 %	69.57 %	0 %	8 7 %

RAW SCORE	STD SCORE	RAW SCORE	STD SCORE
73	60	74	62
75	64	76	66
77	68	78	70
79	72	80	74
81	76	82	78
83	80	84	82
85	85	86	87
87	90	88	90
89	91	90	92
91	92	92	93

```
Ready
```

DISTRIBUTION

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50 - Faculty, Division of Engineering and Weapons

4 - Assistant Librarian, U.S. Naval Academy Library

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

A set of programs is available on the Naval Academy Timesharing System to assist faculty members in the mechanics of grade keeping and recording. This report describes the basic function of each program and provides step-by-step instructions so the novice user can fully utilize any one of the programs.

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